Approved For-	Release 2 003/12/ 04	···CIA-RDP81B0	0878R000400120004-6
COMPANY NAME	ENGINEERING	(MINN)	. 1
David Clark Company Incom	CHANGE PROP	OSAL E	PROPOSAL NO. CDC-3
DATE 7 January 1960	AFFECTS	WSP()	PROJECT -
NAME OF MAJOR COMPONENT High Altitude Pressure Suit	PART OR LOWEST		PART NO. & MODEL OR TYPE MA-2
High Altitude Pressure Suit TITIE OF PROPOSAL:	of Malmot for		aura Suit
Development & Production	or Heimer for	FOILIGI E 199.	
NATURE OF PROPOSAL:			
See	Attachment #1		
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REASON FOR PROPOSAL:	Attachment #2		
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ITEMS AFFECTED BY PROPOSAL Sefety Mission Perform Open			
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SOURCE OF PARTS FOR KIT		AVAILABILITY ——WEEKS AFTER APPROVAL	
David Clark Company Inco	rporated	See At	ttachment #3
DISPOSITION OF SPARES AFFE	Carried Management of the Contract of the Cont	oot	
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DAVID CLARK COMPANY

Engineering Change Proposal CDC-3

7 January 1960

Attachment #1

Nature of Proposal

- Type MA-2 High Altitude Helmet without change of associated protective garments.
- b. Facepiece seal and locking pneumatic ring will be connected by non-kinking, non-collapsible, one-quarter inch hose to the upstream side of the seat pack oxygen inlet check valve. The sealing ring will operate at any pressure in range of forty five to one hundred p.s.i. Seal pressure hose will be routed immediately adjacent to present oxygen mask delivery hose.

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Attachment #2

Reason for Proposal

- a. Helmet would provide an integrated facepiece which would enhance operational capability and safety by providing easy and positive opening and closing of the facepiece without detachment of this item.
- b. Helmet would provide an integrated sun shield and facepiece guard.
- c. Inner head harness is integral and supported by the hard shell and can be adjusted by the wearer during normal wear.
- d. Improved comfort to the wearer in the glottis area due to improved design of the neck seal skirt.
- e. Improved maintenance capability by eliminating critical faceplece seal required on bladder and cover assembly, or 5-692 Cover and Bladder Assembly.
- f. Improved maintenance capability by eliminating potential helmet bladder puncture by helmet hold-down attachments.
- g. Improved inhalation and exhalation valve arrangement. New type exhalation valve provides opportunity for emergency control of exhalation valve if stuck open under pressure.

Attachment #2

Reason for Proposal (continued)

h. Improved windblast protection resulting from integral design of facepiece and helmet shell.

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Engineering Change Proposal CDC-3 7 January 1960

Attachment #3

Item On	- Production Sample Helmet			
Scope of Work				
used wit	turrent David Clark Company Model S-880 Helmet h the A/P-22S-2 full pressure suit so that it will be ble with the partial pressure suits utilized on the			
Specific	areas of modification are as follows:			
1.	Modify helmet mold to delete neck bearing, and provide for attachment of neck scal skirt.			
n.	Redesign the S-692 Helmet Bladder and Case Assembly neck seal shirt to adapt to the hard shell made from the mold in "I" above			
m.	Redesign the helmet suspension so that the face seal can be eliminated without affecting support and adjustability.			
IV.	Provide for mounting the inspiratory and expiratory valves, hose connectors, electrical and communications leads.			
ę.				

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25X1

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Attachment #3

b. Estimated Delivery

Item One - Sixty (60) days from date of authorization to proceed with ECP.

Item Two - First ten (10) helmets sixty (60) days from date of authorization to proceed with Item Two.

Additional twenty (20) helmets sixty (60) days from date of delivery of first ten (10).

Additional twenty (20) helmets likity days from date of delivery of above quantity of twenty (20).

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